

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



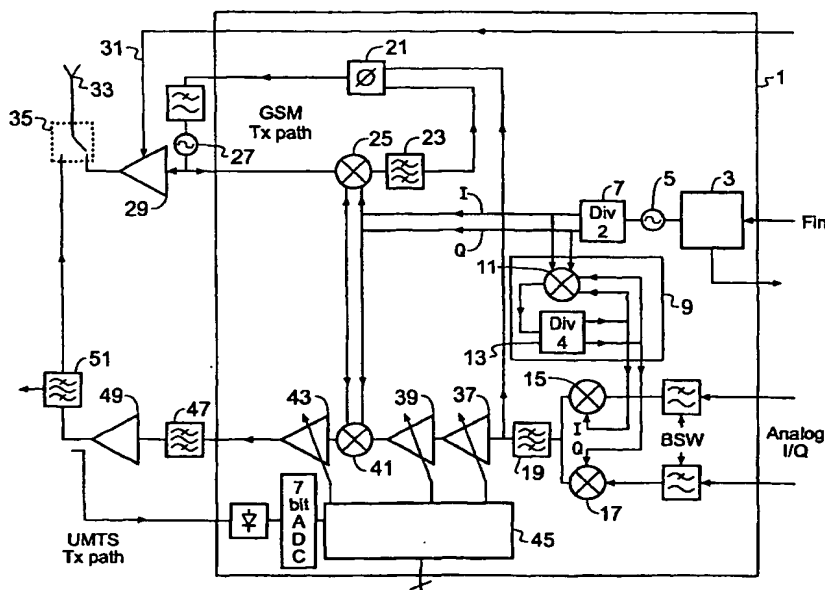
(43) International Publication Date
4 September 2003 (04.09.2003)

PCT

(10) International Publication Number
WO 2003/073659 A3

- (51) International Patent Classification⁷: **H04B 1/38**,
1/06, 1/40, 1/44
- (21) International Application Number: PCT/US2003/005260
- (22) International Filing Date: 21 February 2003 (21.02.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0204108.5 21 February 2002 (21.02.2002) GB
10/331,623 30 December 2002 (30.12.2002) US
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- (81) Designated States (*national*): CN, JP.
- (84) Designated States (*regional*): European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR).
- Published:
— with international search report
- (88) Date of publication of the international search report:
19 February 2004
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: 3G RADIO



(57) Abstract: A dual mode transmitter (1) for GSM and UMTS operation is provided. The GSM and UMTS paths share an oscillator and an intermediate frequency stage. Also, with the exception of the final stage of power amplification, the transmitter is provided as an integrated device.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/05260

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04B 1/38, 1/06, 1/40, 1/44

US CL : 455/561,275,562,266

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 455/561,275,562,266

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y,P	US 6,516,206 B2 (JANTTI) 04 February 2003 (04.02.2003), whole document.	1-32
A,P	US 6,405,025 B1 (KESKI-MATTINEN) 11 June 2002 (11.06.2002), whole document.	1-32
Y	US 6,014,551 A (PESOLA et al) 11 January 2000 (11.01.2000), whole document.	1-32
Y	US 5,794,159 A (PORTIN) 11 August 1998 (11.08.1998), whole document.	1-32



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Date of the actual completion of the international search

17 November 2003 (17.11.2003)

Date of mailing of the international search report

01 DEC 2003

Name and mailing address of the ISA/US

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